

5'	GAGGC	AAG	AAT	TCG	GCA	CGA	GGC	TCA	GCT	CCG	CAC	CGC	AAC	TGA	AGA	TCT	GCC	GCC
	11		20		29					38			47					56
	65		74		83					92			101					110
	GCG	GAA	CAG	TTG	CGT	CTG	CTC	CAT	CTG	GCT	ACC	AAC	CCA	CCC	AAG	CCT	TCT	CCA
	119		128		137					146			155					164
	CCA	CCA	CCT	TCC	TTC	CTT	CCC	CCT	CCT	CCC	CCT	CCT	TTC	GGT	CCT	CCC	TCT	
	173		182		191					200			209					218
	CCA	CCC	CCG	CCA	ATC	TCC	TCC	TTT	TTT	TCT	CAC	TAC	GAG	CGG	TTG	CTG	ATG	
	227		236		245					254			263					272
	CTG	AAG	CCG	AGC	GTC	ACT	TCG	GCT	CCC	ACG	GCA	GAC	ATG	GCG	ACA	TTG	ACA	GTG
	L	K	P	S	V	T	S	A	P	T	A	D	M	A	T	L	T	M
	281		290		299					308			317					326
	GTC	CAG	CCG	CTC	ACC	CTG	GAC	AGA	GAT	GTT	GCA	AGA	GCA	ATT	GAA	TTA	CTG	GAA
	V	Q	P	L	T	L	D	R	D	V	A	R	A	I	E	L	L	E
	335		344		353					362			371					380
	AAA	CTA	CAG	GAA	TCT	GGA	GAA	GTA	CCA	GTG	CAC	AAG	CTA	CAA	TCC	CTC	AAA	AAA
	K	L	Q	E	S	G	E	V	P	V	H	K	L	Q	S	L	K	K
	389		398		407					416			425					434
	GTG	CTT	CAG	AGT	GAG	TTT	TGT	ACA	GCT	ATT	CGA	GAG	GTG	TAT	CAA	TAT	ATG	CAT
	V	L	Q	S	E	F	C	T	A	I	R	E	V	Y	Q	Y	M	H

FIGURE 1A

GAA	ACG	ATA	ACT	GTT	AAT	GGC	TGT	CCC	GAA	TTC	CGT	GCC	AGG	GCA	ACA	GCA	AAG	488
E	T	I	T	V	N	G	C	P	E	F	R	A	R	A	T	A	K	
GCA	ACA	GTT	GCA	GCT	TTT	GCA	GCT	AGT	GAA	GGC	CAC	TCC	CAC	CCT	CGA	GTA	GTT	542
A	T	V	A	A	F	A	A	S	E	G	H	S	H	P	R	V	V	
GAA	CTG	CCA	AAG	ACT	GAT	GAA	GGC	CTT	GGT	TTT	AAT	GTG	ATG	GGA	GGA	AAG	GAG	596
E	L	P	K	T	D	E	G	L	G	F	N	V	M	G	G	K	E	
CAA	AAT	TCC	CCC	ATT	TAT	ATC	TCT	CGC	ATA	ATT	CCT	GGA	GGG	GTG	GCT	GAA	AGA	650
Q	N	S	P	I	Y	I	S	R	I	I	P	G	G	V	A	E	R	
CAC	GGA	GGC	CTC	AAA	AGA	GGA	GAC	CAG	CTG	CTA	TCA	GTG	AAC	GGA	GTG	AGT	GTG	704
H	G	G	L	K	R	G	D	Q	L	L	S	V	N	G	V	S	V	
GAA	GGA	GAA	CAC	CAT	GAG	AAA	GCT	GTG	GAA	CTA	CTC	AAG	GCT	GCT	AAA	GAC	AGC	758
E	G	E	H	H	E	K	A	V	E	L	L	K	A	A	K	D	S	
GTC	AAG	CTG	GTG	GTG	CGA	TAC	ACC	CCA	AAA	GTT	CTG	GAA	GAA	ATG	GAG	GCT	CGC	812
V	K	L	V	V	R	Y	T	P	K	V	L	E	E	M	E	A	R	

FIGURE 1B

821	830	839	848	857	866
TTT GAA AAG CTA CGA ACA GCC AGG CGT CGG CAG CAG CAA TTG CTA ATT CAG	F E K L R T A R R Q Q Q Q Q L L I Q				
875	884	893	902	911	920
CAG CAG CAA CAG CAG CAG CAA CAA ACA CAA AAC CAC ATG TCA TAG GCC	Q Q Q Q Q Q Q T Q Q N H M S				
929	938	947	956	965	974
CTT GAG GGA AAG CTA CTT GAT CAA ACA TCC GAT AGT CAC AAA TTT GAA ACC GTG					
983	992	1001	1010	1019	1028
CTT CAG AAT CCC AGC ACA TAG TAA AAG ACA ACA CTG ATA ATT ATA CCT GTC AAG					
1037	1046	1055	1064	1073	1082
AAG CTG TGA ACA CAT GGT GTA TAA ATT CTT TAC CAA GGC AAC TCA ACA CCT TCT					
1091	1100	1109	1118	1127	1136
TTC TCT GGG CTT GAA CCG CCA CTG CTC ACG TGG GCT TTA CAT ACA TTG ACC TTC					
1145	1154	1163	1172	1181	1190
CAT TCA CTG CAG TGG GAA TTC TCA GTG TGC AGA GGG AGA GGT TTT CTA GTC TGC					
1199	1208	1217	1226	1235	1244
AAA CTG AAA CAG TGT AAG AAG AAT AAA GTC TAT GAC TTT TAA ATA AAA AAA AAA	3				

FIGURE 1C

25 L D R D V A R A I E L L E K L Q E S G E V P V H K L Q S L K 1974337
 117 L E R D V Q R I L E L M E H V Q K T G E V N N A K L A S L Q GI 1685067

55 K V L Q S E F C T A I R E V Y Q Y M H E T I T V N G C P E F 1974337
 147 Q V L Q S E F F G A V R E V Y E T V Y E S I D A D T T P E I GI 1685067

85 R A R A T A K A T V A A F A A S E G H S H P R V V E L P K T 1974337
 177 K A A T A K A T V A A F A A A E G H A H P R I V E L P K T GI 1685067

115 D E G L G F N V M G G K E Q N S P I Y I S R I I P G G V A E 1974337
 207 D Q G L G F N V M G G K E Q N S P I Y I S R I I P G G V A D GI 1685067

145 R H G G L K R G D Q L L S V N G V S V E G E H H E K A V E L 1974337
 237 R H G G L K R G D Q L I A V N G - N V E A E C H E K A V D L GI 1685067

175 L K A A K D S V K L V V R Y T P K V L E E M E A R F E K L R 1974337
 266 L K S A V G S V K L V I R Y M P K L D E M E R R F E R Q R GI 1685067

FIGURE 2